

WEST Search History

DATE: Tuesday, January 17, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L13	neuro\$6 same L10	26
<input type="checkbox"/>	L11	phosphatase? same L10	21
<input type="checkbox"/>	L10	(gene or sequence or polynucleotide or clone or recombinant) same L9	3531
<input type="checkbox"/>	L9	((lipid adj protein adj phophatase) or (phosphatidate adj phosphatase) or (phosphatidic adj acid adj phosphatase) or (acid adj phosphatidyl adj phosphatase) or (phosphatic adj acid adj hydrolase)or lpp or prg)	10871
<input type="checkbox"/>	L8	treat\$5 same L7	5
<input type="checkbox"/>	L7	neuro\$5 same L6	31
<input type="checkbox"/>	L6	(gene or sequence or polynucleotide or clone or recombinant) same L5	165
<input type="checkbox"/>	L5	((lipid same protein same phophatase) or (phosphatidate same phosphatase) or (phosphatidic same acid same phosphatase) or (acid same phosphatidyl same phosphatase) or (phosphatic same acid same hydrolase))	324

END OF SEARCH HISTORY

NiceZyme View of ENZYME: EC 3.1.3.4

Official Name

Phosphatidate phosphatase.

Alternative Name(s)

Phosphatidic acid phosphatase.

Reaction catalysed

A 3-sn-phosphatidate + H(2)O <=> a 1,2-diacyl-sn-glycerol + phosphate

Cross-references

Biochemical Pathways;
map number(s)

F6 ; D8

BRENDA

3.1.3.4

PUMA2

3.1.3.4

PRIAM enzyme-specific
profiles

3.1.3.4

Kyoto University LIGAND
chemical database

3.1.3.4

IUBMB Enzyme
Nomenclature

3.1.3.4

IntEnz

3.1.3.4

MEDLINE

Find literature relating to 3.1.3.4

MetaCyc

3.1.3.4

UniProtKB/Swiss-Prot

Q05521, DPP1_YEAST; O88956, LPP1_CAVPO; O14494, LPP1_HUMAN;
 Q61469, LPP1_MOUSE; P60588, LPP1_PIG; O08564, LPP1_RAT;
 Q04396, LPP1_YEAST; O43688, LPP2_HUMAN; Q9DAX2, LPP2_MOUSE;
 Q8K593, LPP2_RAT; O14495, LPP3_HUMAN; Q99JY8, LPP3_MOUSE;
 P97544, LPP3_RAT; Q9V576, WUN_DROME;

View entry in original ENZYME format

All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.1.3.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.1.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.-



ENZYME: 3.1.3.4

[Help](#)

Entry EC 3.1.3.4 Enzyme

Name phosphatidate phosphatase;
phosphatic acid phosphatase;
acid phosphatidyl phosphatase;
phosphatic acid phosphohydrolase

Class Hydrolases
Acting on ester bonds
Phosphoric monoester hydrolases

Sysname 3-sn-phosphatidate phosphohydrolase

Reaction A 3-sn-phosphatidate + H₂O = a 1,2-diacyl-sn-glycerol + phosphate
[RN:R02239 R06520 R06521 R06522]

Substrate 3-sn-phosphatidate [CPD:C00416]
H₂O [CPD:C00001]

Product 1,2-diacyl-sn-glycerol [CPD:C00641]
phosphate [CPD:C00009]

Pathway PATH: map00561 Glycerolipid metabolism
PATH: map00564 Glycerophospholipid metabolism
PATH: map00600 Glycosphingolipid metabolism

Ortholog KO: K01080 phosphatidate phosphatase

Genes HSA: 8611(PPAP2A) 8612(PPAP2C) 8613(PPAP2B)
MMU: 19012(Ppap2a) 50784(Ppap2c) 67916(Ppap2b)
RNO: 192270(Ppap2b) 246115(Ppap2c) 64369(Ppap2a)
DME: CG8804-PA(CG8804) CG8804-PB(CG8804)
TBR: Tb10.389.0020 Tb10.61.2970
TCR: 511277.370

Reference 1
Smith, S.W., Weiss, S.B. and Kennedy, E.P. The enzymatic
dephosphorylation of phosphatidic acids. J. Biol. Chem. 228 (1957)
915-922.

Other DBs IUBMB Enzyme Nomenclature: 3.1.3.4
ExPASy - ENZYME nomenclature database: 3.1.3.4
ERGO genome analysis and discovery system: 3.1.3.4
BRENDA, the Enzyme Database: 3.1.3.4
CAS: 9025-77-8

LinkDB [All DBs](#)

=> Original format

DBGET integrated database retrieval system, GenomeNet